Manitoba
Bureau of
Statistics

MANITOBA VITAL STATISTICS 1988

A REGIONAL ANALYSIS

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EXECUTIVE SUMMARY

LIVE BIRTHS

There were 17,000 live births in Manitoba during 1988. Of these, 11,681 (68.7%) occurred in Winnipeg. The Winnipeg region had the highest birth rate with 19.3 births per thousand population, followed by the North with a birth rate of 16.6. The lowest birth rates were in the Southeast and Interlake regions, with 4.7 and 5.1 respectively. For Manitoba, the birth rate was 15.7 births per thousand population.

There were 8,674 (51.0%) male births and 8,326 (49.0%) female births. For every thousand males in the population there were 16.2 male births, compared to 15.1 female births for every thousand females in the population. Female births outnumbered male births in the Southeast, Southwest, Interlake and Parklands regions.

DEATHS

There were 9,051 deaths in Manitoba during 1988. There were 5,460 (60.3%) in Winnipeg alone. The region with the highest death rate was the Parklands, with 11.1 deaths per thousand population. The Southwest was second highest with a rate of 10.2. The North region had the lowest death rate with 4.2, followed by the Southeast with a rate of 5.0. The death rate for Manitoba was 8.3.

There were 5,004 (55.3%) male deaths, compared to 4,047 (44.7%) female deaths. The male death rate was higher than the female death rate in all eight Economic Regions. For Manitoba, the male death rate was 9.4, while the female death rate was 7.4.

STILLBIRTHS

The number of stillbirths in Manitoba in 1988 was 101. Of these stillbirths, 69 (68.3%) occurred in Winnipeg. The Southwest had the second highest number with 15 (14.9%) stillbirths, followed by the North with 9 (8.9%). There was only 1 stillbirth in each of the Southeast, South Central and Parklands regions.

The rate of male stillbirth was 6.0 per thousand male live births, while the rate of female stillbirth was 5.8 per thousand female live births. For Manitoba, the rate of stillbirths was 5.9 per thousand live births.

NATURAL INCREASE

In 1988, Manitoba had a net gain of 7,949 persons due to natural increase, for a rate of natural increase of 7.3 persons per thousand. The Interlake region, with a rate of natural decrease of 1.9 persons per thousand, was the region to record the largest net loss during 1988. The North region had the greatest rate of natural increase, that being 12.4.

The female rate of natural increase was greater than the male rate for six of Manitoba's eight economic regions. Rates for Manitoba were 7.8 females per thousand and 6.9 males per thousand.

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INTRODUCTION

This report presents data on the vital statistics (births, deaths, and stillbirths) in the year 1988 for the province of Manitoba. Historical data from 1984 on can be found in the Manitoba Bureau of Statistics report "MANITOBA VITAL STATISTICS 1987 : A REGIONAL ANALYSIS (MBS 88-11). The charts and tables in this report were constructed using data that was reported by the Office of Vital Statistics, Department of Community Services.

This data refers to events that occurred in Manitoba and involved Manitobans by place of occurrence. Where all characteristics of an event have not been recorded, the vital event has been omitted from that statistical table.

The population figures used are from the Statistics Canada 1988 postcensal annual estimates of population, rounded to the nearest hundred. Where population estimates were not available, population projections from the Manitoba Bureau of Statistics have been used to derive the approximate distribution of the population by age and sex. The Statistics Canada estimate was then broken down according to this distribution.

Manitoba is divided into 8 Official Regions for Data Collection (also known as Economic Regions). The following table illustrates the association between data collection region, economic region, and census division.

OFFICIAL REGION FOR DATA COLLECTION	ECONOMIC REGION	CENSUS DIVISION
Southeast	60	1, 2, 12
South Central	61	3, 4
Southwest	62	5, 6, 7, 15
North Central	63	8, 9, 10
Winnipeg	64	11
Interlake	65	13, 14, 18
Parklands	66	16, 17, 20
North	67	19, 21, 22, 23

The map on the opposite page also illustrates these relationships.

Further information and custom tabulations on the 1988 vital statistics can be obtained from the Manitoba Bureau of Statistics by contacting David Greenwood at (204) 945-2989.

TABLE 1 MANITOBA 1988 VITAL STATISTICS BY ECONOMIC REGION BOTH SEXES

REGION	POP'N IN 000'S (JUNE 1)	LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE	RATES			
						LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE
SOUTHEAST	75.2	356	1	373	-17	4.7	2.8	5.0	-.2
SOUTH CENTRAL	50.4	641	1	416	225	12.7	1.6	8.3	4.5
SOUTHWEST	108.7	1,659	15	1,108	551	15.3	9.0	10.2	5.1
NORTH CENTRAL	46.3	463	2	311	152	10.0	4.3	6.7	3.3
WINNIPEG	604.4	11,681	69	5,460	6,221	19.3	5.9	9.0	10.3
INTERLAKE	71.4	366	3	499	-133	5.1	8.2	7.0	-1.9
PARKLANDS	50.7	555	1	564	-9	10.9	1.8	11.1	-.2
NORTH	77.1	1,279	9	320	959	16.6	7.0	4.2	12.4
MANITOBA	1,084.0	17,000	101	9,051	7,949	15.7	5.9	8.3	7.3

NOTE: RATES FOR LIVE BIRTHS, DEATHS, AND NATURAL INCREASE ARE PER 1000 POPULATION.
RATE FOR STILLBIRTHS IS PER 1000 LIVE BIRTHS.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES
STATISTICS CANADA

REGIONAL OVERVIEW

There were 17,000 live births in Manitoba, as shown in Table I. Winnipeg accounted for more live births than any other region, with 11,681 (68.7%). The Southeast had the fewest live births with 356 (2.1%) followed by the Interlake with 366 (2.2%) live births. Winnipeg had the highest birth rate with 19.3 births per thousand population, followed by the North with a birth rate of 16.6. The birth rates in all other regions were lower than the Manitoba rate of 15.7. The Southeast and the Interlake had the lowest birth rates, with 4.7 and 5.1 respectively.

The number of stillbirths in Manitoba was 101. Winnipeg accounted for 69 (68.3%) of these stillbirths. The rate of stillbirths was highest in the Southwest region, where there were 9.0 stillbirths per thousand live births. The Southeast, South Central and Parklands regions each recorded one stillbirth in 1988. The Manitoba level stillbirth rate was 5.9 stillbirths per thousand live births.

There were 9,051 deaths in Manitoba during 1988. Winnipeg had 5,460 (60.3%) of these deaths. The North Central region had the fewest deaths, with 311 (3.4%). The death rate for Manitoba was 8.3 deaths per thousand population. The highest death rate was in the Parklands, which had 11.1 deaths per thousand population. The Southwest region had the next highest death rate (10.2), while the lowest death rates occurred in the North (4.2) and Southeast (5.0) regions.

Five of Manitoba's eight economic regions recorded a positive natural increase during 1988. Of these five regions, the rate of natural increase varied from 3.3 persons per thousand for the North Central, to 12.4 persons per thousand for the North region. The Winnipeg region, with a rate of 10.3, was the only other region to record a rate of natural increase greater than Manitoba, which had a rate of 7.3 persons per thousand. Through natural increase, the Interlake region had a net loss of 133 people for a rate of -1.9 persons per thousand, while the Parklands lost 9 people and the Southeast 17 people.

MALES

Referring to Table II, there were 8,674 male births in Manitoba. Of these, 5,979 (68.9%) occurred in Winnipeg. The Interlake had the fewest male births with 164 (1.9%). The birth rate for males in Manitoba was 16.2 per thousand males. Winnipeg had the highest male birth rate with 20.5. The North and Southwest regions also had high rates, while the Southeast and Interlake regions had the lowest, both with 4.5 births per thousand males.

Of the 52 male stillbirths in Manitoba, 38 (73.1%) occurred in Winnipeg. No other region had more than 7 male stillbirths. The rate of male stillbirths in Winnipeg was 6.4 per thousand male live births. The Interlake region with 2 male stillbirths had the highest rate (12.2), while the male stillbirth rate for Manitoba was 6.0. There were no male stillbirths in the Southeast and Parklands.

TABLE II MANITOBA 1988 VITAL STATISTICS BY ECONOMIC REGION MALES

REGION	POP'N IN 000'S (JUNE 1)	LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE	RATES			
						LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE
SOUTHEAST	38.3	172	0	229	-57	4.5	0.0	6.0	-1.5
SOUTH CENTRAL	25.1	338	1	229	109	13.5	3.0	9.1	4.3
SOUTHWEST	53.8	827	7	610	217	15.4	8.5	11.3	4.0
NORTH CENTRAL	23.4	245	1	164	81	10.5	4.1	7.0	3.5
WINNIPEG	292.1	5,979	38	2,934	3,045	20.5	6.4	10.0	10.4
INTERLAKE	36.4	164	2	292	-128	4.5	12.2	8.0	-3.5
PARKLANDS	25.6	273	0	344	-71	10.7	0.0	13.4	-2.8
NORTH	39.7	676	3	202	474	17.0	4.4	5.1	11.9
MANITOBA	534.3	8,674	52	5,004	3,670	16.2	6.0	9.4	6.9

TABLE III MANITOBA 1988 VITAL STATISTICS BY ECONOMIC REGION FEMALES

REGION	POP'N IN 000'S (JUNE 1)	LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE	RATES			
						LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE
SOUTHEAST	36.9	184	1	144	40	5.0	5.4	3.9	1.1
SOUTH CENTRAL	25.3	303	0	187	116	12.0	0.0	7.4	4.6
SOUTHWEST	55.0	832	8	498	334	15.1	9.6	9.1	6.1
NORTH CENTRAL	22.9	218	1	147	71	9.5	4.6	6.4	3.1
WINNIPEG	312.2	5,702	30	2,526	3176	18.3	5.3	8.1	10.2
INTERLAKE	35.0	202	1	207	-5	5.8	5.0	5.9	-0.1
PARKLANDS	25.1	282	1	220	62	11.2	3.5	8.8	2.5
NORTH	37.4	603	6	118	485	16.1	10.0	3.2	13.0
MANITOBA	549.7	8,326	48	4,047	4,279	15.1	5.8	7.4	7.8

NOTE: RATES FOR LIVE BIRTHS, DEATHS, AND NATURAL INCREASE ARE PER 1000 POPUALTION.
RATE FOR STILLBIRTHS IS PER 1000 LIVE BIRTHS.
ONE STILLBIRTH NOT CODED TO SEX.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES
MANITOBA BUREAU OF STATISTICS

From Table II, deaths of males in Manitoba numbered 5,004, with 2,934 (58.6%) occurring in Winnipeg. The North Central region had the fewest male deaths with 164 (3.3%). The Parklands had the highest male death rate with 13.4 per thousand males. There were also high male death rates in the Southwest (11.3) and Winnipeg (10.0) regions. The lowest male death rates occurred in the North (5.1) and Southeast (6.0) regions. The male death rate for Manitoba was 9.4.

Manitoba gained 3,670 males through natural increase during 1988. The Winnipeg region had the greatest net gain during this time, claiming 3,045 (83.0%) of these. The rate of natural increase for Manitoba was 6.9 males per thousand, with the highest rates being recorded in the North (11.9) and Winnipeg (10.4) regions. The Interlake, Parklands and Southeast regions all had a net loss of males, giving them rates of natural decrease of 3.5, 2.8 and 1.5 males per thousand, respectively.

FEMALES

As illustrated in Table III, there were 8,326 female live births in Manitoba during 1988. Again, the majority (5,702 or 68.5%) occurred in Winnipeg. The Southeast region recorded the fewest female births with 184 (2.2%). The female birth rate for Manitoba was 15.1 per thousand females. Winnipeg had the highest female birth rate with 18.3. The North region also had a high female birth rate (16.1), while the Southeast and Interlake regions had the lowest female birth rates, with 5.0 and 5.8 respectively.

There were 48 female stillbirths in Manitoba during 1988. The Winnipeg region reported 30 (62.5%) of these, while the South Central recorded no female stillbirths and the Southeast, North Central, Interlake and Parklands regions each recorded one stillbirth. The rate of female stillbirths in Manitoba was 5.8 per thousand female live births. The highest rates were recorded in the North (10.0) and Southwest (9.6) regions. Winnipeg recorded a female stillbirth rate of 5.3.

The number of female deaths in Manitoba totalled 4,047 in 1988. Winnipeg accounted for 2,526 (62.4%) female deaths, while the North had the fewest deaths (118 or 2.9%). The highest female death rate was in the Southwest region where there were 9.1 deaths per thousand females. The Parklands region had the next highest female death rate of 8.8, followed by Winnipeg with a rate of 8.2 per thousand females. The lowest female death rates were in the North (3.2) and Southeast (3.9) regions. The female death rate for the province was 7.4.

Seven of the eight economic regions made a positive contribution through natural increase to the number of females in Manitoba, during 1988. While the Interlake region had a net loss of 5 females, the province had a net gain of 4,279, for a rate of natural increase of 7.8 females per thousand. The highest rates of female natural increase occurred in the North (13.0) and Winnipeg (10.2) regions, while the lowest rates occurred in the Interlake (-0.1) and Southeast (1.1) regions. In all regions, with the exception of the North Central region and Winnipeg, the female rate of natural increase was greater than the male rate.

TABLE IV MANITOBA 1988 BIRTHS AND STILLBIRTHS BY WEIGHT

WEIGHT	MALES LIVE BIRTHS	MALES STILL BIRTHS	MALES STILL BIRTH RATE	FEMALES LIVE BIRTHS	FEMALES STILL BIRTHS	FEMALES STILL BIRTH RATE	BOTH SEXES LIVE BIRTHS	BOTH SEXES STILL BIRTHS	BOTH SEXES STILL BIRTH RATE
UNDER 500 g	15	10	666.7	12	11	916.7	27	22	814.8
500 - 999 g	42	10	238.1	31	10	322.6	73	20	274.0
1000-1499 g	36	11	305.6	49	7	142.9	85	18	211.8
1500-1999 g	104	4	38.5	94	1	10.6	198	5	25.3
2000-2499 g	275	1	3.6	301	6	19.9	576	7	12.2
2500-2999 g	987	8	8.1	1,338	1	0.7	2,325	9	3.9
3000-3499 g	2,783	5	1.8	3,060	7	2.3	5,843	12	2.1
3500-3999 g	2,947	2	0.7	2,559	2	0.8	5,506	4	0.7
4000-4499 g	1,206	0	0.0	758	1	1.3	1,964	1	0.5
4500-4999 g	241	0	0.0	98	1	10.2	339	1	2.9
5000-5499 g	26	0	0.0	19	0	0.0	45	0	0.0
5500-5999 g	3	0	0.0	1	0	0.0	4	0	0.0
6000-6499 g	3	0	0.0	0	0	0.0	3	0	0.0
OVER 6500 g	3	0	0.0	3	0	0.0	6	0	0.0
UNKNOWN	3	1	333.3	3	1	333.3	6	2	333.3
TOTALS	8,674	52	6.0	8,326	48	5.8	17,000	101	5.9

NOTE: STILLBIRTH RATE IS PER 1000 LIVE BIRTHS.
ONE STILL BIRTH NOT CODED TO SEX.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

WEIGHT-SPECIFIC BIRTHS AND STILLBIRTHS

Table IV shows that there were few live births in the extreme weight classes. Most of the live births (15,638 or 92.0%) fell into the 2,500 - 4,499 gram weight classes. There were 5,843 (34.4%) live births in the 3,000 - 3,499 g weight class, and 5,506 (32.4%) in the 3,500 - 3,999 g weight class. There were 6 live births recorded in the Over 6,500 g range, and 27 recorded in the Under 500 g range.

The greatest number of stillbirths occurred in the Under 500 g weight class. This weight class had 22 (21.8%) of the 101 stillbirths, for a stillbirth rate of 814.8 per thousand live births. The second highest stillbirth rate (333.3) was recorded in the Unknown weight class, which had 6 live births and 2 stillbirths, followed by the the 500 - 999 g class with 73 live births and 22 stillbirths for a rate of 274.0. The heaviest stillbirth was a female, recorded in the 4,500 - 4,999 g weight class.

For a breakdown of births and stillbirths by weight, sex and economic region, refer to Tables A1 - A3 (births) and Tables B1 - B3 (stillbirths) included in the Appendix.

MALES

There were 7,923 (91.3%) of 8,674 male live births in the weight classes ranging from 2,500 to 4,499 grams. The 3500 - 3999 g weight class had the most live births with 2,947 (34.0%). The median weight at birth for males was 3,520 grams.

The greatest number of stillbirths occurred in the 1000 - 1499 g weight class, which had 11 (21.2%) of the 52 male stillbirths. The Under 500 g and 500 - 999 g weight classes each accounted for 10 (19.2%) of Manitoba's 52 male stillbirth. The Under 500 g weight class with 15 live births had the highest male stillbirth rate of 666.7.

FEMALES

The weight classes ranging from 2,500 to 4,499 grams accounted for 7,715 (92.7%) of the 8,326 female live births in 1988. The 3000 - 3499 g weight class accounted for 3,060 (36.8%) female live births. The median weight at birth for females was 3,380 grams, leading to the conclusion that at birth females tend to weigh less than males.

The greatest number of stillbirths (11 or 22.9% of the 48 female stillbirths) occurred in the Under 500 g weight class. This weight class also had the highest stillbirth rate, with 916.7 female stillbirths per thousand female live births. There were no female stillbirths recorded at 5,000 grams or over.

TABLE V MANITOBA 1988 DEATHS BY AGE GROUP AND SEX

AGE IN YEARS	MALES POP'N IN 000'S	MALES DEATHS	MALES DEATH RATE	FEMALES POP'N IN 000'S	FEMALES DEATHS	FEMALES DEATH RATE	BOTH SEXES POP'N IN 000'S	BOTH SEXES DEATHS	BOTH SEXES DEATH RATE
UNDER 1	8.8	79	9.0	8.3	57	6.9	17.1	136	8.0
1 - 4	33.6	21	0.6	31.9	15	0.5	65.6	36	0.5
5 - 9	40.3	13	0.3	38.2	6	0.2	78.5	19	0.2
10-14	40.2	15	0.4	38.5	4	0.1	78.7	19	0.2
15-19	42.5	41	1.0	40.3	19	0.5	82.8	60	0.7
20-24	44.1	66	1.5	43.8	22	0.5	88.0	88	1.0
25-29	48.5	94	1.9	47.8	19	0.4	96.3	113	1.2
30-34	45.7	61	1.3	45.0	26	0.6	90.7	87	1.0
35-39	39.9	63	1.6	40.5	39	1.0	80.4	102	1.3
40-44	34.6	69	2.0	34.1	44	1.3	68.7	113	1.6
45-49	26.7	100	3.7	26.9	58	2.2	53.6	158	2.9
50-54	23.7	160	6.8	23.7	92	3.9	47.4	252	5.3
55-59	23.6	232	9.9	24.0	125	5.2	47.5	357	7.5
60-64	22.7	408	18.0	25.2	225	8.9	47.9	633	13.2
65-69	20.2	519	25.7	24.4	317	13.0	44.6	836	18.7
70-74	16.3	684	42.0	20.4	441	21.6	36.7	1,125	30.7
75-79	11.7	792	67.7	16.0	589	36.8	27.7	1,381	49.9
80-84	6.8	714	105.0	11.1	656	59.1	17.9	1,370	76.5
85-89	3.1	491	158.4	6.1	611	100.2	9.2	1,102	119.8
90 & OVER	1.3	382	293.8	3.4	682	200.6	4.7	1,064	226.4
TOTALS	534.3	5,004	9.4	549.7	4,047	7.4	1,084.0	9,051	8.3

NOTE: DEATH RATE IS DEATHS PER 1000 POPULATION.
POPULATION FIGURES ARE 1988 ADJUSTED PRELIMINARY POSTCENSAL ESTIMATES.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

AGE-SPECIFIC DEATHS

From Table V, it can be seen that the number of deaths and death rates generally rise as age increases. However, there was also a high number of deaths in the first year of life (136). The death rate of the Under 1 age group was 8.0 per thousand population, which is not surpassed by any other age group under 60.

The lowest death rate was in the 5 - 9 and 10 - 14 age groups, which each had 19 (0.2%) of 9,051 deaths, for a rate of 0.2 per thousand population. The greatest number of deaths occurred in the 75 - 79 age group, where there were 1,381 (15.3%). The highest death rate occurred in the highest age group. There were 1,064 deaths of those aged 90 & Over, for a rate of 226.4.

Deaths by age, sex and economic region are presented in Tables C1 - C3 in Appendix C.

MALES

Of the 5,004 male deaths, 79 (1.6%) were Under 1 year of age, giving this age group a death rate of 9.0 per thousand population. The greatest number of male deaths occurred in the 75 - 79 age group, where there were 792 (15.8%) for a death rate of 67.7. There were 714 (14.3%) male deaths recorded in the 80 - 84 age group, for a death rate of 105.0 per thousand males.

The fewest male deaths recorded for any single age group was 13 (0.3%), for the 5 - 9 age group. For this age group, the death rate was 0.3, which is also lower than for any other age group. The highest male death rate (293.8) was recorded for the 90 & Over age group.

For males, the median age of death in 1988 was 74 years of age.

FEMALES

There were 4,047 female deaths in Manitoba during 1988, as shown in Table V. Of these, 57 (1.4%) occurred in the Under 1 age group, which represents a death rate of 6.9 per thousand females. The greatest number of female deaths occurred in the highest age group (90 & Over), which had 682 (16.9%), for a rate of 200.6. The fewest female deaths occurred in the 10 - 14 age group, which had 4 (0.1%). The death rate for this group was 0.2.

The female death rate was less than or equal to the male death rate in all age groups. The median age of death for females in 1988 was 79 years of age.

TABLE VI MANITOBA 1988 INFANT DEATHS BY AGE

AGE	MALES		FEMALES		BOTH SEXES	
	DEATHS	DEATH RATE	DEATHS	DEATH RATE	DEATHS	DEATH RATE
UNDER 1 DAY	22	2.5	17	2.0	39	2.3
1 - 6 DAYS	17	2.0	14	1.7	31	1.8
7 - 13 DAYS	5	.6	2	.2	7	.4
14 - 27 DAYS	4	.5	3	.4	7	.4
28 DAYS - 3 MONTHS	17	2.0	13	1.6	30	1.8
3 - 6 MONTHS	9	1.0	5	.6	14	.8
6 MONTHS - 1 YEAR	5	.6	3	.4	8	.5
NEONATAL	48	5.5	36	4.3	84	4.9
POST-NEONATAL	31	3.6	21	2.5	52	3.1
INFANT	79	9.1	57	6.8	136	8.0
PERINATAL	91	10.4	79	9.4	171	10.0

NOTE: INFANT DEATH RATES ARE PER 1000 LIVE BIRTHS.
PERINATAL DEATH RATES ARE PER 1000 TOTAL BIRTHS.
NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH.
ONE INFANT DEATH NOT CODED TO SEX.
ONE MALE INFANT DEATH NOT CODED TO NUMBER OF LIVING DAYS.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

INFANT DEATHS

Infant deaths are deaths among those Under 1 year of age. These deaths are further classified as being neonatal or post-neonatal. Neonatal deaths are deaths among infants less than 28 days of age. Post-neonatal deaths are infant deaths at 28 days of age or more. Another class of infant death is the perinatal death. A perinatal death is a stillbirth, or a death that occurs at less than 7 days of age.

From Table VI, it can be seen that there were 136 infant deaths (1.5% of all deaths) in Manitoba, 84 (61.8%) of which were neonatal, and 52 (38.2%) of which were post-neonatal. The neonatal death rate was 4.9 per thousand live births, and the post-neonatal death rate was 3.1.

Most of the neonatal deaths were also perinatal deaths, as 39 (46.4%) of the neonatal deaths were of those Under 1 Day old, and 31 (36.9%) were of those from 1 - 6 Days old. Of the 171 perinatal deaths, 101 (59.1%) were stillbirths. The perinatal death rate was 10.0 per thousand total births, where total births are defined to be live births and stillbirths combined.

MALES

There were 79 male infant deaths (58.1% of all infant deaths), of which 48 (60.8%) were neonatal and 31 (39.2%) were post-neonatal. Most of the male neonatal deaths were also perinatal. There were 22 male neonatal deaths (45.8%) at Under 1 Day of age, and 17 (35.4%) aged 1 - 6 Days. The neonatal death rate for males was 5.5 per thousand male live births, and the post-neonatal death rate was 3.6.

Of the 91 perinatal deaths, 52 (57.1%) were stillbirths. The perinatal death rate for males was 10.4 per thousand total births, and the overall infant death rate of males was 9.1 per thousand live births.

FEMALES

There were 57 (41.0% of all infant deaths) female infant deaths in 1988. Of these, 36 (63.2%) were neonatal, and 21 (36.8%) were post-neonatal. Of the 36 neonatal deaths, 17 (47.2%) were on the first day of life and 14 (38.9%) were of those aged 1 - 6 Days. The female neonatal death rate was 4.3 per thousand female births, and the post-neonatal death rate was 2.5.

There were 79 female perinatal deaths in 1988, 48 (60.8%) of which were stillbirths. The perinatal death rate was 9.4 per thousand total births, and the overall female infant death rate was 6.8 per thousand live births.

TABLE VII MANITOBA 1988 INFANT DEATHS BY TYPE AND ECONOMIC REGION BOTH SEXES

	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
TYPE									
INFANT	3	2	4	2	107	4	4	10	136
NEONATAL	0	1	3	0	75	1	1	3	84
POST-NEONATAL	3	1	1	2	32	3	3	7	52
STILLBIRTHS	1	1	15	2	69	3	1	9	101
PERINATAL	1	2	18	2	131	4	2	11	171
RATE									
(per 1,000 live births)									
INFANT	8.4	3.1	2.4	4.3	9.2	10.9	7.2	7.8	8.0
STILLBIRTHS	2.8	1.6	9.0	4.3	5.9	8.2	1.8	7.0	5.9
PERINATAL (per 1,000 total births)	2.8	3.1	10.8	4.3	11.1	10.8	3.6	8.5	10.0

NOTE: INFANT DEATH RATES ARE PER 1000 LIVE BIRTHS.
PERINATAL DEATH RATES ARE PER 1000 TOTAL BIRTHS.
NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

INFANT DEATHS BY TYPE AND ECONOMIC REGION

As shown in Table VII, Winnipeg recorded 107 (78.7%) of the 136 infant deaths in Manitoba during 1988. The North region had the next greatest number of infant deaths with 10 (7.4%), followed by the Southwest, Interlake and Parklands regions all registering 4 infant deaths. The Southeast had 3 infant deaths, while the South Central and Interlake each recorded 2 stillbirths.

Of the 107 infant deaths in Winnipeg, 75 (70.1%) were neonatal while the other 32 (29.1%) were post-neonatal. For the North region, 3 (30.0%) of the 10 infant deaths were neonatal and 7 (70.0%) were post-neonatal. The remaining six regions shared 19 infant deaths. of these infant deaths, 6 (31.6%) were neonatal and 13 (68.4%) were post-neonatal. The Southeast and North Central regions reported no neonatal infant deaths.

In 1988, Manitoba had an infant death rate of 8.0 per thousand live births. The Interlake with a rate of 10.9, Winnipeg with a rate of 9.2% and the Southwest with a rate of 8.4% were the only regions having infant death rates higher than the provincial figure. The Southwest, South Central and North Central regions had infant death rates well below the provincial rate, with 2.4, 3.1 and 4.3 respectively.

Winnipeg had 131 (76.6%) of the 171 perinatal deaths in Manitoba. The Southwest region with 18 (10.5%) perinatal deaths, and the North region with 11 (6.4%), accounted for 72.5% of the perinatal deaths that occurred outside Winnipeg. The Southeast region recorded only 1 perinatal death in 1988.

Manitoba had a perinatal death rate of 11.1 per thousand total births. Regions with high perinatal death rates were Winnipeg (11.1) and the Interlake and Southwest regions with rates of 10.8. The South Central region had a perinatal death rate of only 3.1, based on 2 perinatal deaths in 1988.

Detailed information on infant deaths by age, sex and economic region is shown in Tables D1 - D3.

TABLE VIII MANITOBA 1988 DEATHS BY CAUSE OF DEATH AND ECONOMIC REGION BOTH SEXES

	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
HEART DISEASE	101	131	346	80	1,509	150	205	81	2,603
CANCER	80	100	280	69	1,489	106	126	46	2,296
CEREBROVASCULAR DISEASE	43	42	71	27	415	37	57	15	707
ACCIDENTS	24	17	48	13	190	30	28	48	398
PNEUMONIA	24	19	56	7	203	34	17	13	373
CHRONIC OBSTRUCTIVE PULMONARY DISEASE	17	14	51	12	165	20	21	17	317
DISEASES OF ARTERIES, ARTERIOLES AND CAPILLARIES	7	7	30	9	147	4	9	6	219
DIABETES	10	11	17	6	90	15	14	7	170
OTHER DISEASES OF THE DIGESTIVE SYSTEM	6	8	14	5	113	11	4	4	165
SUICIDE	5	3	10	3	100	10	8	15	154
HEREDITARY AND DEGENERATIVE DISEASES OF THE CENTRAL NERVOUS SYSTEM	7	6	21	4	84	4	11	2	139
NEPHRITIS, NEPHROTIC SYNDROME AND NEPHROSIS	2	6	9	4	47	10	12	3	93
CONITIONS ORIGINATING IN PERINATAL	0	1	2	0	57	0	1	2	63
HYPERTENSIVE DISEASE	4	3	11	1	29	2	4	3	57
NONPSYCHOTIC MENTAL DISORDERS	1	3	3	7	35	2	1	5	57
OTHER RESPIRATORY DISEASES	1	2	6	3	33	4	2	3	54
OTHER CENTRAL NERVOUS SYSTEM	0	0	10	2	35	1	4	1	53
OTHER DISEASES OF INTESTINES AND PERITONIUM	0	2	6	1	34	0	3	1	47
ILL-DEFINED AND UNKNOWN CAUSES	23	14	27	34	259	34	7	20	418
OTHER CAUSES	20	33	111	36	586	32	38	39	895
TOTAL	373	416	1,108	311	5,460	499	564	320	9,051

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

CAUSE OF DEATH

Table VIII presents some of the major causes of death as defined in the "Manual Of The International Statistical Classification Of Disease, Injuries, and Causes Of Death". A few deaths might have their causes reclassified after an investigation occurs. For the total number of deaths, such as by suicide, please contact the Office of the Chief Medical Examiner, Attorney General's Department.

During 1988 there were 2,603 deaths due to Heart Disease and 2,296 deaths due to Cancer: together, these two accounted for 54.1% of Manitoba's 9,051 deaths. The third most common cause of death was cerebrovascular disease with 707 (7.8%), followed by accidents with 398 (4.4%), pneumonia with 373 (4.1%) and chronic obstructive pulmonary disease with 317 (3.5%) deaths. There were 418 deaths (4.6% of the Manitoba total) that were classified as being ill-defined or from unknown causes.

During the 1988 calendar year, there were 219 deaths (2.4% of Manitoba's 9,051 deaths) caused by diseases of arteries, arterioles and capillaries. This was followed by 170 deaths (1.9%) due to diabetes, 165 deaths (1.8%) due to other diseases of the digestive system and 154 (1.7%) suicides. Of the 154 suicides, 100 or 64.9% occurred in Winnipeg. No single other cause of death accounted for more than 100 deaths.

There were 1,509 of Manitoba's 2,603 deaths caused by heart disease occurring in Winnipeg: this is 58.0% of the Manitoba total. The Southwest region accounted for 346 (13.3%) of the deaths attributed to heart disease, the Parklands region accounted for 205 (7.9%) deaths, the Interlake region accounted for 150 (5.8%) deaths, the South Central region accounted for 131 (5.0%) deaths and the Southeast region accounted for 101 (3.9%) deaths. The North and North Central regions accounted for 81 and 80 heart disease related deaths.

There were 1,489 of Manitoba's 2,296 deaths caused by cancer that occurred in Winnipeg: this is 64.9% of the Manitoba total. The Southwest region accounted for 280 (12.2%) of cancer related deaths. The Parklands region accounted for 126 (5.5%) deaths, the Interlake region accounted for 106 (4.6%) deaths and the South Central region accounted for 100 (4.4%) deaths. The Southeast, North Central and North regions accounted for 80, 69 and 46 cancer related deaths respectively.

Heart disease and cancer are the leading causes of death: they account for 54.1% of the deaths at a provincial level. Only in three regions do these two causes not account for 50 percent of deaths: the North with 39.7%, the North Central with 47.9% and the Southeast with 48.5%. The Interlake region had the highest percent of deaths caused by heart disease and cancer with 62.6%, followed by the Parklands with 58.7%.

TABLE A1 BIRTHS BY WEIGHT BY ECONOMIC REGION: 1988 BOTH SEXES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	2	0	0	0	24	1	0	0	27
500- 999	0	1	6	0	64	0	0	2	73
1000-1499	0	1	8	0	72	1	0	3	85
1500-1999	0	1	12	2	168	0	1	14	198
2000-2499	4	4	63	7	458	4	12	24	576
2500-2999	40	48	194	62	1,700	49	59	173	2,325
3000-3499	134	226	560	174	4,061	127	159	402	5,843
3500-3999	127	246	562	156	3,627	133	215	440	5,506
4000-4499	42	92	207	58	1,250	42	91	182	1,964
4500-4999	5	18	39	3	218	8	17	31	339
5000-5499	2	4	7	1	25	1	0	5	45
5500-5999	0	0	0	0	3	0	0	1	4
6000g OR MORE	0	0	0	0	8	0	1	0	9
UNKNOWN	0	0	1	0	3	0	0	2	6
TOTAL	356	641	1,659	463	11,681	366	555	1,279	17,000

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

MANITOBA BUREAU OF STATISTICS MAY, 1989

TABLE A2

BIRTHS BY WEIGHT BY ECONOMIC REGION: 1988

MALES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	0	0	0	0	15	0	0	0	15
500- 999	0	1	4	0	36	0	0	1	42
1000-1499	0	1	3	0	30	0	0	2	36
1500-1999	0	0	6	0	88	0	1	9	104
2000-2499	2	1	32	2	220	2	4	12	275
2500-2999	22	26	69	28	731	19	21	71	987
3000-3499	64	103	262	87	1,934	57	79	197	2,783
3500-3999	48	138	305	86	1,974	58	100	238	2,947
4000-4499	32	56	114	40	770	22	54	118	1,206
4500-4999	4	10	27	2	156	5	13	24	241
5000-5499	0	2	4	0	16	1	0	3	26
5500-5999	0	0	0	0	2	0	0	1	3
6000g OR MORE	0	0	0	0	5	0	1	0	6
UNKNOWN	0	0	1	0	2	0	0	0	3
TOTAL	172	338	827	245	5,979	164	273	676	8,674

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

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TABLE A3 BIRTHS BY WEIGHT BY ECONOMIC REGION: 1988 FEMALES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	2	0	0	0	9	1	0	0	12
500- 999	0	0	2	0	28	0	0	1	31
1000-1499	0	0	5	0	42	1	0	1	49
1500-1999	0	1	6	2	80	0	0	5	94
2000-2499	2	3	31	5	238	2	8	12	301
2500-2999	18	22	125	34	969	30	38	102	1,338
3000-3499	70	123	298	87	2,127	70	80	205	3,060
3500-3999	79	108	257	70	1,653	75	115	202	2,559
4000-4499	10	36	93	18	480	20	37	64	758
4500-4999	1	8	12	1	62	3	4	7	98
5000-5499	2	2	3	1	9	0	0	2	19
5500-5999	0	0	0	0	1	0	0	0	1
6000g OR MORE	0	0	0	0	3	0	0	0	3
UNKNOWN	0	0	0	0	1	0	0	2	3
TOTAL	184	303	832	218	5,702	202	282	603	8,326

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

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TABLE B1 STILLBIRTHS BY WEIGHT BY ECONOMIC REGION: 1988 BOTH SEXES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	0	0	3	0	14	0	0	5	22
500- 999	1	0	2	0	15	2	0	0	20
1000-1499	0	0	1	0	14	1	1	1	18
1500-1999	0	0	1	1	3	0	0	0	5
2000-2499	0	0	3	1	2	0	0	1	7
2500-2999	0	0	2	0	7	0	0	0	9
3000-3499	0	0	2	0	10	0	0	0	12
3500-3999	0	1	1	0	1	0	0	1	4
4000-4499	0	0	0	0	1	0	0	0	1
4500-4999	0	0	0	0	1	0	0	0	1
5000-5499	0	0	0	0	0	0	0	0	0
5500-5999	0	0	0	0	0	0	0	0	0
6000g OR MORE	0	0	0	0	0	0	0	0	0
UNKNOWN	0	0	0	0	1	0	0	1	2
TOTAL	1	1	15	2	69	3	1	9	101

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

MANITOBA BUREAU OF STATISTICS MAY, 1989

TABLE B2 STILLBIRTHS BY WEIGHT BY ECONOMIC REGION: 1988 MALES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	0	0	1	0	8	0	0	1	10
500- 999	0	0	0	0	8	2	0	0	10
1000-1499	0	0	1	0	9	0	0	1	11
1500-1999	0	0	1	1	2	0	0	0	4
2000-2499	0	0	1	0	0	0	0	0	1
2500-2999	0	0	2	0	6	0	0	0	8
3000-3499	0	0	1	0	4	0	0	0	5
3500-3999	0	1	0	0	1	0	0	0	2
4000-4499	0	0	0	0	0	0	0	0	0
4500-4999	0	0	0	0	0	0	0	0	0
5000-5499	0	0	0	0	0	0	0	0	0
5500-5999	0	0	0	0	0	0	0	0	0
6000g OR MORE	0	0	0	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0	0	1	1
TOTAL	0	1	7	1	38	2	0	3	52

NOTE: ONE STILLBIRTH WAS NOT CODED TO SEX.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

MANITOBA BUREAU OF STATISTICS MAY, 1989

TABLE B3 STILLBIRTHS BY WEIGHT BY ECONOMIC REGION: 1988 FEMALES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	0	0	2	0	5	0	0	4	11
500- 999	1	0	2	0	7	0	0	0	10
1000-1499	0	0	0	0	5	1	1	0	7
1500-1999	0	0	0	0	1	0	0	0	1
2000-2499	0	0	2	1	2	0	0	1	6
2500-2999	0	0	0	0	1	0	0	0	1
3000-3499	0	0	1	0	6	0	0	0	7
3500-3999	0	0	1	0	0	0	0	1	2
4000-4499	0	0	0	0	1	0	0	0	1
4500-4999	0	0	0	0	1	0	0	0	1
5000-5499	0	0	0	0	0	0	0	0	0
5500-5999	0	0	0	0	0	0	0	0	0
6000g OR MORE	0	0	0	0	0	0	0	0	0
UNKNOWN	0	0	0	0	1	0	0	0	1
TOTAL	1	0	8	1	30	1	1	6	48

NOTE: ONE STILLBIRTH WAS NOT CODED TO SEX.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

MANITOBA BUREAU OF STATISTICS MAY, 1989

TABLE C1 DEATHS BY AGE GROUP AND ECONOMIC REGION: 1988 BOTH SEXES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 YEAR	3	2	4	2	107	4	4	10	136
1- 4 YEARS	0	0	2	3	21	2	2	6	36
5- 9	0	1	1	1	10	1	2	3	19
10-14	0	1	1	1	13	0	0	3	19
15-19	2	4	4	1	36	4	0	9	60
20-24	5	1	4	4	44	7	6	17	88
25-29	6	2	6	1	71	7	6	14	113
30-34	4	1	4	4	59	2	4	9	87
35-39	4	3	11	3	63	4	5	9	102
40-44	3	3	10	0	73	5	9	10	113
45-49	5	2	17	1	105	9	7	12	158
50-54	15	5	17	5	167	8	18	17	252
55-59	13	13	45	14	228	18	13	13	357
60-64	18	26	55	18	410	39	45	22	633
65-69	27	34	100	24	543	47	35	26	836
70-74	40	50	144	31	710	50	76	24	1,125
75-79	64	55	169	41	861	64	86	41	1,381
80-84	60	73	180	53	781	83	105	35	1,370
85-89	61	61	163	45	602	70	73	27	1,102
90 AND OVER	43	79	171	59	556	75	68	13	1,064
UNKNOWN	0	0	0	0	0	0	0	0	0
TOTAL	373	416	1,108	311	5,460	499	564	320	9,051

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

MANITOBA BUREAU OF STATISTICS MAY, 1989

TABLE C2 DEATHS BY AGE GROUP AND ECONOMIC REGION: 1988 MALES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 YEAR	2	2	2	1	64	2	1	5	79
1- 4 YEARS	0	0	1	2	12	0	2	4	21
5- 9	0	1	1	0	7	0	1	3	13
10-14	0	1	1	1	10	0	0	2	15
15-19	1	2	2	1	28	1	0	6	41
20-24	3	1	4	2	30	6	4	16	66
25-29	6	1	5	1	57	7	4	13	94
30-34	3	1	3	3	39	2	2	8	61
35-39	3	2	7	1	36	4	4	6	63
40-44	3	3	4	0	42	5	7	5	69
45-49	4	1	10	1	67	7	4	6	100
50-54	11	4	14	3	96	5	14	13	160
55-59	10	10	33	10	146	10	5	8	232
60-64	13	19	36	11	258	23	35	13	408
65-69	18	21	60	19	331	31	20	19	519
70-74	20	34	102	17	419	31	49	12	684
75-79	41	35	103	22	474	36	59	22	792
80-84	41	38	83	29	385	56	61	21	714
85-89	28	33	71	19	249	39	36	16	491
90 AND OVER	22	20	68	21	184	27	36	4	382
UNKNOWN	0	0	0	0	0	0	0	0	0
TOTAL	229	229	610	164	2,934	292	344	202	5,004

NOTE: ONE DEATH HAS NOT BEEN CODED TO SEX.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

MANITOBA BUREAU OF STATISTICS MAY, 1989

TABLE C3 DEATHS BY AGE GROUP AND ECONOMIC REGION: 1988 FEMALES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 YEAR	1	0	2	1	43	2	3	5	57
1- 4 YEARS	0	0	1	1	9	2	0	2	15
5- 9	0	0	0	1	3	1	1	0	6
10-14	0	0	0	0	3	0	0	1	4
15-19	1	2	2	0	8	3	0	3	19
20-24	2	0	0	2	14	1	2	1	22
25-29	0	1	1	0	14	0	2	1	19
30-34	1	0	1	1	20	0	2	1	26
35-39	1	1	4	2	27	0	1	3	39
40-44	0	0	6	0	31	0	2	5	44
45-49	1	1	7	0	38	2	3	6	58
50-54	4	1	3	2	71	3	4	4	92
55-59	3	3	12	4	82	8	8	5	125
60-64	5	7	19	7	152	16	10	9	225
65-69	9	13	40	5	212	16	15	7	317
70-74	20	16	42	14	291	19	27	12	441
75-79	23	20	66	19	387	28	27	19	589
80-84	19	35	97	24	396	27	44	14	656
85-89	33	28	92	26	353	31	37	11	611
90 AND OVER	21	59	103	38	372	48	32	9	682
UNKNOWN	0	0	0	0	0	0	0	0	0
TOTAL	144	187	498	147	2,526	207	220	118	4,047

NOTE: ONE DEATH HAS NOT BEEN CODED TO SEX.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

MANITOBA BUREAU OF STATISTICS MAY, 1989

TABLE D1 INFANT DEATHS BY AGE AND ECONOMIC REGION: 1988 BOTH SEXES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 DAY	0	1	3	0	32	1	0	3	39
1 - 6 DAYS	0	0	0	0	30	0	1	0	31
7 - 13 DAYS	0	0	0	0	7	0	0	0	7
14 - 27 DAYS	0	0	0	0	6	0	0	1	7
28 DAYS - 3 MONTHS	1	0	0	1	21	0	2	5	30
3 - 6 MONTHS	2	1	1	0	6	2	1	1	14
6 MONTHS - 1 YEAR	0	0	0	1	5	1	0	1	8
INFANT	3	2	4	2	107	4	4	10	136
NEONATAL	0	1	3	0	75	1	1	3	84
POST-NEONATAL	3	1	1	2	32	3	3	7	52
STILLBIRTHS	0	4	11	2	83	1	5	13	119
PERINATAL	0	5	14	2	145	2	6	16	189

NOTE: NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH.
ONE INFANT DEATH NOT CODED TO NUMBER OF LIVING DAYS.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

MANITOBA BUREAU OF STATISTICS MAY, 1989

TABLE D2 INFANT DEATHS BY AGE AND ECONOMIC REGION: 1988 MALES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 DAY	0	1	2	0	18	0	0	1	22
1 - 6 DAYS	0	0	0	0	17	0	0	0	17
7 - 13 DAYS	0	0	0	0	5	0	0	0	5
14 - 27 DAYS	0	0	0	0	4	0	0	0	4
28 DAYS - 3 MONTHS	1	0	0	0	13	0	1	2	17
3 - 6 MONTHS	1	1	0	0	4	2	0	1	9
6 MONTHS - 1 YEAR	0	0	0	1	3	0	0	1	5
INFANT	2	2	2	1	64	2	1	5	79
NEONATAL	0	1	2	0	44	0	0	1	48
POST-NEONATAL	2	1	0	1	20	2	1	4	31
STILLBIRTHS	0	3	7	1	49	0	2	5	67
PERINATAL	0	4	9	1	84	0	2	6	106

NOTE: NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH.
ONE MALE INFANT DEATH NOT CODED TO NUMBER OF LIVING DAYS.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

MANITOBA BUREAU OF STATISTICS MAY, 1989

TABLE D3 INFANT DEATHS BY AGE AND ECONOMIC REGION: 1988 FEMALES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 DAY	0	0	1	0	14	1	0	1	17
1 - 6 DAYS	0	0	0	0	13	0	1	0	14
7 - 13 DAYS	0	0	0	0	2	0	0	0	2
14 - 27 DAYS	0	0	0	0	2	0	0	1	3
28 DAYS - 3 MONTHS	0	0	0	1	8	0	1	3	13
3 - 6 MONTHS	1	0	1	0	2	0	1	0	5
6 MONTHS - 1 YEAR	0	0	0	0	2	1	0	0	3
INFANT	1	0	2	1	43	2	3	5	57
NEONATAL	0	0	1	0	31	1	1	2	36
POST-NEONATAL	1	0	1	1	12	1	2	3	21
STILLBIRTHS	0	1	4	1	34	1	3	7	51
PERINATAL	0	1	5	1	61	2	4	8	82

NOTE: NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

MANITOBA BUREAU OF STATISTICS MAY, 1989